

NV NOW II NOW IN

# **Suite inspiration 5**

Over the last few months you may have been following my series of articles describing how I constructed an oak dining table, chairs and display cabinet for a client's dining area, plus a matching occasional table. This is the final piece in the collection. I've called it a companion unit, due more to its intended purpose than its appearance

COMPANION UNIT CUTTING			1	Fin
Part	Qty	t	₩	T
CABINET				
fop	1	400	350	20
side	2	390	320	20
3060	1	350	320	20
shelf	2	350	314	18
Basik (plywood)	1	380	350	6
Hinth front/bank	2	400	40	15
Plinth eide	2	350	40	15
Minth bearer	2	330	20	20
DRAWEIRS				
Top drawer front/back	2	330	86	20
Top drawer side	2	310	85	20
Centre drawer front/back	2	330	200	20
Contro drawer side	2	310	100	20
Buttom drawer front/back	2	330	115	20
action drawer side	2	210	116	20
Orever bottoms (plywood)	3	300	285	6

he lined commission from my-clients what to continue to sensel companionunit to ait between two armchairs in their lounge. If was to act as a low table, allowing the storage of books and papers in the drawers below, and had to be easy to move sround.

To meet their requirements I designed a small cheet of drawers, mounted on costors for manoeuvrability. I also decided that the construction would allow the clients to remove a drawer or two if they wished, so as to reveal open shalves. The basis dimensions of the piece would be 400mm wide. 350mm deep and 400mm high.

# Making up panels

I started by selecting nome boards of European oak from the same stock I'd used for the other familiars, and passed these through my libidosesse. I then out appropriate sections to becaut-joint together and form the panels which would in turn become the top, bottom, sides and shelves of the unit.

Once the biscuit stats were cut, photo 1, I glued and cramped up the boards, then left them overnight to ensure that the glue had fully cured before doing any further work on them.

#### Black marks

I had five panels to cramp up, and adon ran out of the tubuler cramps I prefer to use when cramping up boards like this, ad I had





Make up the panels by joining boards together with glue and biscuits



Pass the boards through the panel sander to flatten their surfaces



Create the housings with a sories of passes on the radial arm saw



Use the router to gut narrower housings in the underside of the top to take the sides



6

The router leaves a pircular out at each and of the housing; trim it with a comer chisel



...and the housings across it to a depth of 2mm to accept the abony lelay



Out the stringing to length and give it into the grooves and housings



Use a 2mm straight cutter in the router to cut growes along the grain...

to call up a couple with standard steel bar each cramps. One thing to avoid when using steel cramps is to ensure that the excess glue doesn't come into contact with the steet; if it does, you'll be left with unsightly black marks on your cak which can be very difficult to remove. A simple way of preventing this is to place a fold of paper on the glue line between the board and the cramp.

## Watch out for squeeze-out

Beware too the excess glue which is squeezed out as the boards are cramped up. Many people recommend removing this trunediately with a damp cloth, but I distilks this method as wiping can actually force glue into the open potes of the wood Unforturately it doesn't show until you by to poish the piece.

I prefer to leave the excess glue to set hard; then I remove it with a sharp chiest or scraper before sending the penel flat. I did this here, passing the boards through my penel sender, photo 2, to flatten the surfaces and finish them all to a uniform thatmess. I then out them to width, planed the edges on the surfacer and cut them to length as per the outling list.

Shelf housings

inetsed of using the roomal raditional construction using drawer runners, I opted for solid shelves to give the customer a choice of how to use the unit – with closed drawars or open shelves.

The shelves and the base are let into housings cut across the full width of the sides, I created the housings by making a succession of adjacent cuts using my radial arm way, photo 5, until the desired width was achieved.

Next, I cut a simple rebate on the inner back edge of each side and the base using the router to accept the edges of the plywood back panel.

I then cut a pair of nerrower housings on the underside of the top with the router to accept the upper edges of the sides, photo 4. I fixed a tember batter to the router tenos to make sure it ren true as I cut them, photo 5. I planned to rout the meriching tongues on the top edges of the sides later.

The main problem when cutting housings with a router is that the cutter leaves a circular cut at either end. This was simply equore up using a sharp corner chisel, photo 6.

#### Adding the intay

Having finished the housings, I changed the cutter in my router to a 2mm straight cutter

and proceeded to cut a groove along the grain, photo 7, and a housing acrose it, photo 8, both approximately 30mm in from the edge, to accept the black abony inlay stringing that less been a feature of this whole collection of pieces.

The intay was then glued in, photo 9, and allowed to dry. Next the surface was sanded to get the intay flush prior to rounding the comers of the top on like disc sender, photo 10. Knowing what the limithed height of the table would be, I thought leaving sharp comers would only lead to bruited legs at some point in the future?

I also applied a similar inlay around the two side penels before preparing to glue up the carcase.

#### Assembly time

The assembled corcase consisted at this stage of the two sides, the base and the two shelves, photo 11. Once the glue had cured, I removed the cramps and used a bearing-guided rebate cutter to form a tongue along the top edge of the sides, photo 12. This would later siot neatly into the housings already formed on the underside of the top.

Before gluing the top onto the carcase, I sorewed a pair of 20mm square betters / aprose the underside of the bears, flush with its hart sact basis deges. I that squared the mitrad plinth sections into pigoe all ajound the base of the carcase, with the comers mitrad and glued. With the parts held in place with several spring clampe, photo 13, I added a few screws for good measure. Finally, with the plinth fitted I was able to glue and cramp the top in position, photo 14.

With the carcase all but complete (the back won't be listed until the unlithea been polished). I rounded over all the edges which hadn't already been done, photo 15. This effectively editened the appearance of what could have appeared as a very square unit. It was now time to turn my attention to making the drawers.

# Little boxes

Knowing that a drawer or two might be removed to leave just open shakes, I decided to make the drawers as octual bases. Traditionally the drawer back is always made lower than the sides, but keeping the sides, backs and fronts the same height maant they could all be jointed in the same way.

Instead of using standard top dovetalls for the drawers, I opted to use through develols which would leave the end grain of the base of the talks visible on the drawer





fronts and give a different appearance to the front of the drawers,

I must admit that this is where I find my Woodrat coming into its own, photo 16 The eockets it cuts are always clean, photo 17, leaving very little chisel work to be done,... unless you haven't set it up properly in the first instance, of course!

I then out a firms wide groove on the inside of each drawer side, front and back to take the plywood base before gluing and cramping up the three boxes with the bases in place, photo 18.

Once the glue had set, I canded each drawer with my random orbit sander and rounded over the edges before sliding them into position in the carcane.

## Finishing touches

It was now time to remove the drawers again and apray all the component parts with the same pre-catalysed lacquer I'd used on the other pieces in the suite. When it had dried, I de-nibbed all the suiteces with fine abresive paper before applying some Mylands light brown was and butting it up to a natural sheen.

Finally I littled the plywood back, slong with the knobe (eee panet, right), and added a set of four sufface-mounted swivel castors to the bottom majde the plinthragiology, the graph that the movement my clienter powerflooking for.

With this prece completing the suite, their room was now fully furnished and my job was done. I hope you've enjoyed reading about how I did it.



# MATCHING KNOBS

When I must the display calend (halving thour February smoot). I made some small significations knobs for the doors. I should be made a may small knobs for the correction und drawers, but knowing that these were skely to be filled with magazines and the like I thought they digit to be a little stronger and theorem appearance.

I marted by machining a piece of ebony to have a 20mm requires bottler. I wanted to severanch known equires bottler I wanted to severanch known equipment of the bottler of my disc random using done incided think I amarted he pyramid profile by amenting each and of the button to the anding disc, photo A numing a through soft each time the cut me has the middle of the cutton. Photo 8 shows the finished maps. Then I cut a proove on each side of the butten using my recovery my to form the noted of me had been using my recovery.

I made in lew extra knowl, photo 0, to moure I had three that matched. Then I carefully sanded off the saw made and treated them to a cost of good facquer before putting them to one sign to allow the cooling to dure fully, photo E.



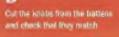
Pretent the end of the corner to the doc at an angle



Tom it impeatedly through 90° to treate the pyramid shape



Cut notches in the butter to form the new of the name of





Mount each knob on a makes fift base and apply a coat of gloss facouser